

IL 73138

7/9/1

DIALOG(R) File 345:Inpadoc/Fam.& Legal Stat

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5668533

Basic Patent (No,Kind,Date): DK 8404872 A0 19841011

PATENT FAMILY:

AUSTRALIA (AU)

Patent (No,Kind,Date): AU 8434054 A1 19850418

THERMAL ENERGY STORAGE MATERIAL (English)

Patent Assignee: DOW CHEMICAL CO

Author (Inventor): LANE GEORGE A; TEOT ARTHUR S; ROSSOW HAROLD E

Priority (No,Kind,Date): US 540726 A 19831011

Applic (No,Kind,Date): AU 8434054 A 19841009

IPC: * C09K-005/06

Language of Document: English

Patent (No,Kind,Date): AU 551906 B2 19860515

THERMAL ENERGY STORAGE MATERIAL (English)

Patent Assignee: DOW CHEMICAL CO

Author (Inventor): LANE GEORGE A; TEOT ARTHUR S; ROSSOW HAROLD E

Priority (No,Kind,Date): US 540726 A 19831011

Applic (No,Kind,Date): AU 8434054 A 19841009

IPC: * C09K-005/06

Language of Document: English

CANADA (CA)

Patent (No,Kind,Date): CA 1242577 A1 19881004

REVERSIBLE PHASE CHANGE COMPOSITION FOR STORING THERMAL ENERGY (English
; French)

Patent Assignee: DOW CHEMICAL CO

Author (Inventor): LANE GEORGE A; TEOT ARTHUR S; ROSSOW HAROLD E

Priority (No,Kind,Date): US 540726 A 19831011

Applic (No,Kind,Date): CA 464256 A 19840928

National Class: * 31-34

IPC: * C09K-005/06

Language of Document: English

GERMANY (DE)

Patent (No,Kind,Date): DE 3465204 C0 19870910

REVERSIBLE PHASE CHANGE COMPOSITION FOR STORING THERMAL ENERGY (English
; French; German)

Patent Assignee: DOW CHEMICAL CO (US)

Author (Inventor): LANE GEORGE A; TEOT ARTHUR S; ROSSOW HAROLD E

Priority (No,Kind,Date): US 540726 A 19831011

Applic (No,Kind,Date): EP 84112148 A 19841010

IPC: * C09K-005/06

CA Abstract No: * 103(24)198628X

Derwent WPI Acc No: * C 85-123876

Language of Document: English; French; German

GERMANY (DE)

Legal Status (No,Type,Date,Code,Text):

DE 3465204 P 19870910 DE REF CORRESPONDS TO
(ENTSPRICHT)

EP 142028 P 19870910

DE 3465204 P 19880901 DE 8364 NO OPPOSITION DURING TERM OF
OPPOSITION (EINSPRUCHSFRIST ABGELAUFEN OHNE
DASS EINSPRUCH ERHOBEN WURDE)

DENMARK (DK)

Patent (No,Kind,Date): DK 8404872 A 19850412

REVERSIBLE FASEAENDRINGSMATERIALER TIL LAGRING AF TERMISK ENERGI

(Danish)

Patent Assignee: DOW CHEMICAL CO (US)
 Author (Inventor): LANE GEORGE A; TEOT ARTHUR S; ROSSOW HAROLD E
 Priority (No,Kind,Date): US 540726 A 19831011
 Applic (No,Kind,Date): DK 844872 A 19841011
 IPC: * C09K

Language of Document: Danish

Patent (No,Kind,Date): DK 8404872 A0 19841011

REVERSIBLE FASEAENDRINGSMATERIALER TIL LAGRING AF TERMISK ENERGI

(Danish)

Patent Assignee: DOW CHEMICAL CO (US)
 Author (Inventor): LANE GEORGE A; TEOT ARTHUR S; ROSSOW HAROLD E
 Priority (No,Kind,Date): US 540726 A 19831011
 Applic (No,Kind,Date): DK 844872 A 19841011
 IPC: * C09K

Language of Document: Danish

Patent (No,Kind,Date): DK 164112 B 19920511

REVERSIBLE FASEAENDRINGSMATERIALER TIL LAGRING AF TERMISK ENERGI

(Danish)

Patent Assignee: DOW CHEMICAL CO (US)
 Author (Inventor): LANE GEORGE A; TEOT ARTHUR S; ROSSOW HAROLD E
 Priority (No,Kind,Date): US 540726 A 19831011
 Applic (No,Kind,Date): DK 844872 A 19841011
 IPC: * C09K-005/06

CA Abstract No: * 103(24)198628X

Derwent WPI Acc No: * C 85-123876

Language of Document: Danish

Patent (No,Kind,Date): DK 164112 C 19921005

REVERSIBLE FASEAENDRINGSMATERIALER TIL LAGRING AF TERMISK ENERGI

(Danish)

Patent Assignee: DOW CHEMICAL CO (US)
 Author (Inventor): LANE GEORGE A; TEOT ARTHUR S; ROSSOW HAROLD E
 Priority (No,Kind,Date): US 540726 A 19831011
 Applic (No,Kind,Date): DK 844872 A 19841011
 IPC: * C09K-005/06

CA Abstract No: * 103(24)198628X

Derwent WPI Acc No: * C 85-123876

Language of Document: Danish

DENMARK (DK)

Legal Status (No,Type,Date,Code,Text):

DK 844872 A 19831011 DK AAA PRIORITY OF THE APPL.

(PATENT APPL.)

US 540726 A 19831011

DK 844872 A 19841011 DK AEA DATA OF DOMESTIC APPL.

DK 844872 A 19841011

DK 844872 A 19850412 DK A PUBLISHED APPLICATION

DK 844872 A 19920511 DK AGA PUBLISHED AS APPLICATION

OPEN FOR PUBLIC INSPECTION (PUBLISHED AS

APPL. OPEN FOR PUBLIC INSPECTION)

DK 164112 B 19920511

DK 844872 A 19921005 DK AGA PATENT GRANTED

DK 164112 C 19921005

DK 164112 P 19831011 DK AA PRIORITY OF THE PATENT

US 540726 A 19831011

DK 164112 P 19841011 DK AE APPLICATION DATA (PATENT)

(APPL. DATA (PATENT))

DK 844872 A 19841011

DK 164112 P 19920511 DK B APPLICATION PUBLISHED FOR

PUBLIC EXAMINATION (APPL. PUBLISHED FOR

PUBLIC EXAMINATION)

DK 164112 P 19921005 DK C PATENT GRANTED
 DK 164112 P 19970616 DK PBP PATENT LAPSED

EUROPEAN PATENT OFFICE (EP)

Patent (No,Kind,Date): EP 142028 A1 19850522

REVERSIBLE PHASE CHANGE COMPOSITION FOR STORING THERMAL ENERGY
 (English)

Patent Assignee: DOW CHEMICAL CO (US)

Author (Inventor): LANE GEORGE A; TEOT ARTHUR S; ROSSOW HAROLD E

Priority (No,Kind,Date): US 540726 A 19831011

Applic (No,Kind,Date): EP 84112148 A 19841010

Designated States: (National) BE; CH; DE; FR; GB; IT; LI; NL; SE

IPC: * C09K-005/06

CA Abstract No: * 103(24)198628X

Derwent WPI Acc No: * C 85-123876

Language of Document: English

Patent (No,Kind,Date): EP 142028 B1 19870805

REVERSIBLE PHASE CHANGE COMPOSITION FOR STORING THERMAL ENERGY
 (English)

Patent Assignee: DOW CHEMICAL CO (US)

Author (Inventor): LANE GEORGE A; TEOT ARTHUR S; ROSSOW HAROLD E

Priority (No,Kind,Date): US 540726 A 19831011

Applic (No,Kind,Date): EP 84112148 A 19841010

Designated States: (National) BE; CH; DE; FR; GB; IT; LI; NL; SE

IPC: * C09K-005/06

Language of Document: English

EUROPEAN PATENT OFFICE (EP)

Legal Status (No,Type,Date,Code,Text):

EP 142028	P	19831011	EP AA	PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))
				US 540726 A 19831011
EP 142028	P	19841010	EP AE	EP-APPLICATION (EUROPAEISCHE ANMELDUNG)
				EP 84112148 A 19841010
EP 142028	P	19850522	EP AK	DESIGNATED CONTRACTING STATES (BENANNTE VERTRAGSSTAATEN)
EP 142028	P	19850522	EP A1	PUBLICATION OF APPLICATION WITH SEARCH REPORT (VEROEFFENTLICHUNG DER ANMELDUNG MIT RECHERCHENBERICHT)
EP 142028	P	19850925	EP 17P	REQUEST FOR EXAMINATION FILED (PRUEFUNGSANTRAG GESTELLT)
EP 142028	P	19860514	EP 17Q	FIRST EXAMINATION REPORT (ERSTER PRUEFUNGSBESCHIED)
EP 142028	P	19870805	EP AK	DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION (IN EINER PATENTSCHRIFT ANGEFUEHRTE BENANNTE VERTRAGSSTAATEN)
EP 142028	P	19870805	EP B1	PATENT SPECIFICATION (PATENTSCHRIFT)
EP 142028	P	19870910	EP REF	CORRESPONDS TO: (ENTSPRICHT)
				DE 3465204 P 19870910
EP 142028	P	19870918	EP ET	FR: TRANSLATION FILED (FR: TRADUCTION A ETE REMISE)
EP 142028	P	19871104	EP ITF	IT: TRANSLATION FOR A EP PATENT FILED (IT: DEPOSITO TRADUZIONE DI BREVETTO EUROPEO)
				ING. A. GIAMBROCONO & C. S.R.L.
EP 142028	P	19880727	EP 26N	NO OPPOSITION FILED (KEIN

EINSPRUCH EINGELEGT)

EP 142028	P	19911031	EP ITTA	IT: LAST PAID ANNUAL FEE (IT: TASSA ANNUALE ULTIMO PAGAMENTO)
EP 142028	P	19950131	EP EUG	SE: EUROPEAN PATENT HAS LAPSED (SE: EUROPEISKT PATENT HAR UPPHOERT ATT GAELLA) 910603 84112148.6
EP 142028	P	19970430	EP BERE	BE: LAPSED (BE: DECHU) 961031 THE ;DOW CHEMICAL CY
EP 142028	P	19970613	CH PL/REG	PATENT CEASED (LOESCHUNG/RADIATION/RADIAZION)
EP 142028	P	19970701	EP NLV4	NL: LAPSED OR ANNUED DUE TO NON-PAYMENT OF THE ANNUAL FEE (NL: WEGENS NIET BETALEN VAN EEN JAARCIJNS VERVALLEN) 970501
EP 142028	P	20020101	GB IF02/REG	EUROPEAN PATENT IN FORCE AS OF 2002-01-01

SPAIN (ES)

Patent (No,Kind,Date): ES 536659 A1 19880316
 UN METODO DE ALMACENAR ENERGIA (Spanish)
 Patent Assignee: DOW CHEMICAL CO (US)
 Priority (No,Kind,Date): US 540726 A 19831011
 Applic (No,Kind,Date): ES 536659 A 19841010
 Filing Details: (Date of Coming into Force) 19880208
 IPC: * C09K-005/06
 CA Abstract No: * 103(24)198628X
 Derwent WPI Acc No: * C 85-123876
 Language of Document: Spanish

Patent (No,Kind,Date): ES 8802070 A1 19880601
 UN METODO DE ALMACENAR ENERGIA (Spanish)
 Patent Assignee: DOW CHEMICAL CO (US)
 Priority (No,Kind,Date): US 540726 A 19831011
 Applic (No,Kind,Date): ES 536659 A 19841010
 Filing Details: (Date of Coming into Force) 19880208
 IPC: * C09K-005/06
 CA Abstract No: * 103(24)198628X
 Derwent WPI Acc No: * C 85-123876
 Language of Document: Spanish

Patent (No,Kind,Date): ES 536659 A5 19880415
 UN METODO DE ALMACENAR ENERGIA (Spanish)
 Patent Assignee: DOW CHEMICAL CO (US)
 Priority (No,Kind,Date): US 540726 A 19831011
 Applic (No,Kind,Date): ES 536659 A 19841010
 Filing Details: (Date of Coming into Force) 19880208 (Date of
 Previous Publication) 19880316
 IPC: * C09K-005/06
 CA Abstract No: * 103(24)198628X
 Derwent WPI Acc No: * C 85-123876
 Language of Document: Spanish

SPAIN (ES)

Legal Status (No,Type,Date,Code,Text):
 ES 536659 AA 19991201 ES FD1A PATENT LAPSED (PATENTE
 CADUCIDADES)
 19991007

ISRAEL (IL)

Patent (No,Kind,Date): IL 73138 A0 19850131
 REVERSIBLE PHASE CHANGE COMPOSITION FOR STORING THERMAL ENERGY
 (English)
 Patent Assignee: DOW CHEMICAL CO

Priority (No,Kind,Date): US 540726 A 19831011
Applic (No,Kind,Date): IL 73138 A 19841002
IPC: * C09K
Language of Document: English
Patent (No,Kind,Date): IL 73138 A1 19880630
REVERSIBLE PHASE CHANGE COMPOSITION FOR STORING THERMAL ENERGY
(English)
Patent Assignee: DOW CHEMICAL CO (US)
Author (Inventor): GEORGE A LANE; ARTHUR S TEOT; HAROLD E ROSSOW
Priority (No,Kind,Date): US 540726 A 19831011
Applic (No,Kind,Date): IL 73138 A 19841002
IPC: * C09K-005/02
CA Abstract No: * 103(24)198628X
Derwent WPI Acc No: * C 85-123876
Language of Document: English
ISRAEL (IL)
Legal Status (No,Type,Date,Code,Text):
IL 73138 P 19991028 IL RH PATENTS VOID
INDIA (IN)
Patent (No,Kind,Date): IN 161738 A 19880130
A THERMAL ENERGY STORAGE MATERIAL (English)
Patent Assignee: DOW CHEMICAL CO
Author (Inventor): GEORGE A LANE; ARTHUR S TEOT; HAROLD E ROSSOW
Priority (No,Kind,Date): US 540726 A 19831011
Applic (No,Kind,Date): IN 84MA756 A 19841008
IPC: * C01F-001/00
CA Abstract No: * 103(24)198628X
Derwent WPI Acc No: * C 85-123876
Language of Document: English
JAPAN (JP)
Patent (No,Kind,Date): JP 60101167 A2 19850605
REVERSIBLE PHASE TRANSFER COMPOSITION FOR HEAT ENERGY STORAGE (English)
Patent Assignee: DOW CHEMICAL CO
Author (Inventor): JIYOOJI EI RAN; AASAA ESU TEOTSUTO; HARORUDO II
ROTSUSOU
Priority (No,Kind,Date): US 540726 A 19831011
Applic (No,Kind,Date): JP 84211571 A 19841011
IPC: * C09K-005/00
Language of Document: Japanese
Patent (No,Kind,Date): JP 89034550 B4 19890719
Patent Assignee: DOW CHEMICAL CO
Author (Inventor): JOOJI EI RAN; AASAA ESU TEOTSUTO; HARORUDO II
ROTSUSOU
Priority (No,Kind,Date): US 540726 A 19831011
Applic (No,Kind,Date): JP 84211571 A 19841011
IPC: * C09K-005/00; F24C-015/34
Language of Document: Japanese
KOREA, REPUBLIC (KR)
Patent (No,Kind,Date): KR 8601895 B1 19861024
REVERSIBLE PHASE CHANGE COMPOSITION FOR STORING THERMAL ENERGY
(English)
Patent Assignee: DOW CHEMICAL CO (US)
Author (Inventor): LANE GEORGE A (US); TEOT ARTHUR S (US); ROSSOW
HAROLD E (US)
Priority (No,Kind,Date): US 540726 A 19831011
Applic (No,Kind,Date): KR 846299 A 19841011
IPC: * C09K-005/06
Language of Document: Korean
NORWAY (NO)

Patent (No,Kind,Date): NO 8404057 A 19850412
 REVERSIBEL FASEFORANDRINGSBLANDING FOR LAGRING AV TERMISK ENERGI
 (Norwegian)
 Patent Assignee: DOW CHEMICAL CO (US)
 Author (Inventor): LANE GEORGE A; TEOT ARTHUR S; ROSSOW HAROLD E
 Priority (No,Kind,Date): US 540726 A 19831011
 Applic (No,Kind,Date): NO 844057 A 19841010
 IPC: * C09K

Language of Document: Norwegian
 Patent (No,Kind,Date): NO 160789 B 19890220
 LAGRINGSMATERIALE FOR TERMISK ENERGI. (Norwegian)
 Patent Assignee: DOW CHEMICAL CO (US)
 Author (Inventor): LANE GEORGE A; TEOT ARTHUR S; ROSSOW HAROLD E
 Priority (No,Kind,Date): US 540726 A 19831011
 Applic (No,Kind,Date): NO 844057 A 19841010
 IPC: * C09K-005/06

CA Abstract No: * 103(24)198628X
 Derwent WPI Acc No: * C 85-123876
 Language of Document: Norwegian

Patent (No,Kind,Date): NO 160789 C 19890531
 LAGRINGSMATERIALE FOR TERMISK ENERGI. (Norwegian)
 Patent Assignee: DOW CHEMICAL CO (US)
 Author (Inventor): LANE GEORGE A; TEOT ARTHUR S; ROSSOW HAROLD E
 Priority (No,Kind,Date): US 540726 A 19831011
 Applic (No,Kind,Date): NO 844057 A 19841010
 IPC: * C09K-005/06

CA Abstract No: * 103(24)198628X
 Derwent WPI Acc No: * C 85-123876
 Language of Document: Norwegian

NEW ZEALAND (NZ)

Patent (No,Kind,Date): NZ 209739 A 19870430
 REVERSIBLE PHASE CHANGE THERMAL ENERGY STORAGE COMPOSITIONS CONTAINING
 HYDRATED INORGANIC SALTS AND A CATIONIC SURFACTANT THICKENING AGENT
 (English)

Patent Assignee: DOW CHEMICAL CO
 Author (Inventor): LANE G A; TEOT A S; ROSSOW H E
 Priority (No,Kind,Date): US 540726 A 19831011
 Applic (No,Kind,Date): NZ 209739 A 19841002
 IPC: * C09K-005/00
 Language of Document: English

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 4585572 A 19860429
 REVERSIBLE PHASE CHANGE COMPOSITION FOR STORING THERMAL ENERGY
 (English)
 Patent Assignee: DOW CHEMICAL CO (US)
 Author (Inventor): LANE GEORGE A (US); ROSSOW HAROLD E (US); TEOT
 ARTHUR S (US)
 Priority (No,Kind,Date): US 540726 A 19831011
 Applic (No,Kind,Date): US 540726 A 19831011
 National Class: * US 252070000; US 252315100; US 252315200; US
 126400000; US 126452000; US 165104120
 IPC: * C09K-003/18

Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):
 US 4585572 P 19831011 US AE APPL. DATA (PATENT)
 US 540726 A 19831011
 US 4585572 P 19860210 US AS02 ASSIGNMENT OF ASSIGNOR'S
 INTEREST

DOW CHEMICAL COMPANY THE, ; LANE, GEORGE A. :
19831010; ROSSOW, HAROLD E. : 19831010; TEOT,
ARTHUR S. : 19831010

US 4585572 P 19860429 US A PATENT
SOUTH AFRICA (ZA)
Patent (No,Kind,Date): ZA 8407844 A 19860528
REVERSIBLE PHASE CHANGE COMPOSITION FOR STORING THERMAL ENERGY
(English)
Patent Assignee: DOW CHEMICAL CO
Author (Inventor): LANE GEORGE A; TEOT ARTHUR S; ROSSOW HAROLD E
Priority (No,Kind,Date): US 540726 A 19831011
Applic (No,Kind,Date): ZA 847844 A 19841005
IPC: * C09K
CA Abstract No: * 103(24)198628X
Derwent WPI Acc No: * C 85-123876
Language of Document: English

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